

# AUTHOR INDEX

- |                        |                        |                            |                     |
|------------------------|------------------------|----------------------------|---------------------|
| Alexandris, N. A. 135  | Eppel, D. 438          | Lee, S. S. 2               | Schilling, W. 433   |
| Ansari, K. A. 114      | Fletcher, C. A. J. 176 | Lewis, B. A. 107, 376      | Scott, M. 241       |
| Anwar, M. N. 11        | Forsythe, W. 367       | Lorenzetti, J. A. 339      | Selen, W. J. 246    |
| Aramaki, G. 82         | Frydrychowicz, W. 284  | Malmberg, C. J. 133        | Sen, P. K. 450      |
| Assimacopoulos, D. 234 | Fu, L-Q. 2             | Markatos, N. C. 190        | Sen, S. 271         |
| Aucamp, D. C. 57       | Gottinger, H. W. 330   | Martens, J. 433            | Sengupta, S. 2      |
| Balachandran, S. 133   | Gray, W. J. 241        | Mazumdar, D. 25            | Sharp, S. 41        |
| Barbutto, J. 176       | Guthrie, R. I. L. 25   | Mehta, A. J. 294           | Singh, M. C. 284    |
| Bhattacharya, M. C. 68 | Hathoot, H. M. 129     | Moscardini, A. O. 376      | Sissons, C. J. 33   |
| Bigi, D. 49            | Häuser, J. 438         | Nahorski, Z. 456           | Sladek, J. 249      |
| Boutros, Y. Z. 11      | Hayter, E. J. 294      | Oke, K. H. 101             | Sladek, V. 249      |
| Buchan, G. D. 423      | He, Guangqian 185      | Peng, Xiaolin 185          | Spalding, D. B. 278 |
| Castellano, L. 93      | Honma, T. 170          | Peters, F. H. 262          | Srinivasan, K. 278  |
| Coleman, C. J. 445     | Hott, D. D. 246        | Rahman, M. 221, 401        | Sykas, E. D. 346    |
| Contractor, D. N. 271  | Ilic, M. 16            | Ramos, J. I. 61, 409       | Tanaka, Y. 170      |
| Cooke, A. E. 221       | James, I. D. 87        | Randall, T. J. 97          | Tewick, A. H. 11    |
| Cross, M. 33, 107, 376 | Jha, N. K. 162         | Rangogni, R. 266           | Thacker, W. C. 438  |
| Curran, D. A. S. 107   | Kaji, I. 170           | Riganti, R. 49             | Thoma, U. 93        |
| Davies, T. W. 256      | Khan, N. U. 114        | Ritchie, A. I. M. 314, 323 | Turner, I. W. 16    |
| Davis, G. B. 314, 323  | Koen, C. 119, 125      | Robertson, S. 33           | Wang, J. D. 339     |
| Dobran, F. 61          | Kranc, S. C. 429       | Robinson, P. J. 97         | Wong, K. F. V. 155  |
| Elganainy, M. A. 394   | Kumar, P. 357          | Roy, A. M. 450             | Wright, G. A. 101   |
| Ellis, N. S. 97        | Kyle, D. M. 133        | Schagen, I. P. 53          | Yeh, G. T. 155      |
|                        |                        |                            | Zamani, N. G. 262   |

# SUBJECT INDEX

- |  |   |  |
|--|---|--|
| Advective transport via error minimization: enforcing constraints of non-negativity and conservation 438 | Boundary element methods for the diffusion equation, Stability analysis for 41                                    | Convection-diffusion problems in three dimensions, Mixed boundary element solutions of 170                                       |
| Aggregate production planning, Closing the marketing loop in 57  | Boundary element method, Improved computation of stresses using the 249   | Coupled heat transfer in lighting fitting 101  |
| Analytic modelling of solar radiation—driven temperature variations of outdoor surfaces 423              | Boundary elements for thin layers with high permeability in Biot's consolidation analysis 82                      | Density functions from spatially distributed categorical data, Construction of continuous 53                                     |
| Application of boundary integral equation method for modelling unsteady nonlinear water waves 11         | Boundary integral formulation of the Stefan problem, A 445  | Deposition nozzles for high uniformity, Radial profiles of 429   |
| Application of the boundary element method in free jet impingement problems 93                           | Boundary value problems by the decomposition method, Solutions of nonlinear 49                                    | Determination of the truncation error in difference equations 367  |
| Applications of the boundary element method in electrodeposition problems 262                            | Cavities, Flow behaviour in rearward-facing 176   | Diffusion equation, Stability analysis for boundary element methods for the 41   |
| Biodegradation processes, A new approach to the mathematical modelling of 33                             | Closing the marketing loop in aggregate production planning 57  | Digital computation of transient characteristics of an induction motor on switched supply 450                                    |
| Biot's consolidation analysis, Boundary elements for thin layers with high permeability in 82            | Comments on 'Fitting continuous-time and discrete-time models using discrete-time data and their application' 456 | Discrete-time data and their application, Comments on 'Fitting continuous-time and discrete-time data and their application' 456 |
| Bond graphs, Population interactions modelled by 234   | Comparisons between thermodynamic and one-dimensional combustion models of spark-ignition engines 409             | Drained stratum, Flow underneath a pair of structures with intermediate filters on a 394   |
| Bonus service for certain customers, A queueing model with 241   | Compressible flow problems, The stream function coordinate system for solution of one-dimensional unsteady 278    | Drying of a wet porous material 16   |
| Boundary element method for shallow shells, Computation of fundamental solutions of the 185              | Computation of fundamental solutions of the boundary element method for shallow shells 185                        | Electrodeposition problems, Application of the boundary element method in 262  |
| Boundary element method for the solution of the transient diffusion equation in two dimensions, A 107    | Construction of continuous density functions from spatially distributed categorical data 53                       | Estuarial waters, Modelling cohesive sediment transport in 294   |
| Boundary element method in free jet impingement problems, Application of the 93                          |   | Field validation of the contaminant transport model, FEMA 155  |
|  |   | Finite difference equation for heat transfer during transient change, A new improved 68  |
|  |   | Finite element modelling of coupled diffusion and reaction problems in gas cooled nuclear reactors 97                            |

- Flow and mixing in ladle metallurgy steelmaking operations (CAS method), Numerical computation of 25
- Flow behaviour in rearward-facing cavities 176
- Flow underneath a pair of structures with intermediate filters on a drained stratum 394
- Flows in shallow domains with vegetative obstruction, Time dependent three dimensional simulation of 2
- Flowshop scheduling problem with no in-process waiting, A new formulation and solution of the 246
- Front-resolving sigma coordinate sea model with a simple hybrid advection scheme, A 87
- Generalized Laplace equation by coupling the boundary element method and the perturbation method, Numerical solution of the 266
- Geometric programming, Optimizing the number of tools and cutting parameters in multi-tool turning for multiple objectives through 162
- Heat transfer during transient change, A new improved finite difference equation for 68
- Hot-wire anemometer, Modelling the response of a 256
- Improved computation of stresses using the boundary element method 249
- Jet impingement problems, Application of the boundary element method in free 93
- Lift-stairs service systems of multi-level buildings, Mean highest reversal floor and expected number of stops in 135
- Lighting fitting, Coupled heat transfer in a 101
- Mathematical modelling of turbulent flows, The 190
- Mean highest reversal floor and expected number of stops in lift-stairs service systems of multi-level building 135
- Mineral exploitation: part 1, Towards realistic microeconomic models of 119
- Mineral exploitation: part 2, Towards realistic microeconomic models of 125
- Minimax optimization, Reduction of pressure surges by 271
- Mixed boundary element solutions of convection-diffusion problems in three dimension, On 170
- Model based evaluation of a commonly used rule of thumb for warehouse layout, A 133
- Model of oxidation in pyritic mine wastes: part 1: equations and approximate solution, A 314
- Model of oxidation in pyritic mine wastes: part 2: comparison of numerical and approximate solutions, A 323
- Model with a simple hybrid advection scheme, A front-resolving sigma coordinate sea 87
- Modelling cohesive sediment transport in estuarial waters 294
- Modelling of biodegradation processes, A new approach to the mathematical 33
- Modelling the response of a hot-wire anemometer 256
- Multi-tool turning for multiple objectives through geometric programming, Optimizing the number of tools and cutting parameters in 162
- New approach to the mathematical modelling of biodegradation processes 33
- New formulation and solution of the flowshop scheduling problem with no in-process waiting, A 246
- New improved finite difference equation for heat transfer during transient change, A 68
- Nonlinear vibrations of a slider-crank mechanism 114
- Nuclear reactors, Finite element modelling of coupled diffusion and reaction problems in gas cooled 97
- Numerical computation of flow and mixing in ladle metallurgy steelmaking operations (CAS method) 25
- Numerical modelling criterion for the analysis of underground openings using infinite elements, A 357
- Numerical solution of the generalized Laplace equation by coupling the boundary element method and the perturbation method 266
- Offshore structures, Second order wave loads on large monolithic 401
- On the capacity assignment problem in packet-switching computer networks 346
- On the use of wave-absorbing layers in the treatment of open boundaries in numerical coastal circulation models 339
- Open boundaries in numerical coastal circulation models, On the use of wave-absorbing layers in the treatment of 339
- Optimizing the number of tools and cutting parameters in multi-tool turning for multiple objectives through geometric programming 162
- Outdoor surfaces, Analytic modelling of solar radiation-driven temperature variations of 423
- Packet-switching computer networks, On the capacity assignment problem in 346
- Parameter estimation with applications in water resources, Recursive state and 433
- Population interactions modelled by bond graphs 234
- Porous material, Drying of a wet 16
- Pyritic mine wastes: part 1: equations and approximate solution, A model of oxidation in 314
- Pyritic mine wastes: part 2: comparison of numerical and approximate solutions, A model of oxidation in 323
- Queueing model with bonus service for certain customers, A 241
- Radial profiles of deposition nozzles for high uniformity 429
- Recursive state and parameter estimation with applications in water resources 433
- Reduction of pressure surges by minimax optimization 271
- Scientific and engineering computation, software engineering methodologies for 376
- Second order wave loads on large monolithic offshore structures 401
- Seepage beneath a concrete dam with a downstream filter 129
- Shallow shells, Computation of fundamental solutions of the boundary element method for 185
- Similarity representation of wave propagation in a nonlinear viscoelastic rod on a group theoretic basis 284
- Slider-crank mechanism, Nonlinear vibrations of a 114
- Software engineering methodologies for scientific and engineering computation 376
- Solar radiation-driven temperature variation of outdoor surfaces, Analytic modelling of 423
- Solid waste management with applications, A computational model for 330
- Solutions of nonlinear boundary value problems by the decomposition method 49
- Stability analysis for boundary element methods for the diffusion equation 41
- Stability analysis of a closed thermosyphon model 61
- Steelmaking operations (CAS method), Numerical computation of flow and mixing in ladle metallurgy 25
- Stefan problem, A boundary integral formulation of the 445
- Stream function coordinate system for solution of one-dimensional unsteady compressible flow problems, The 278
- Temperature and velocity distributions in a square duct 221
- Thermosyphon model, Stability analysis of a closed 61
- Time dependent three dimensional simulation of flows in shallow domains with vegetative obstruction 2
- Towards realistic microeconomic models of mineral exploitation: part 1 119
- Towards realistic microeconomic models of mineral exploitation: part 2 125
- Transient diffusion equation in two dimensions, A boundary element method for the solution of the 107
- Transport model, FEMA, Field validation of the contaminant 155
- Truncation error in difference equations, Determination of the 367
- Underground openings using infinite elements, A numerical modelling criterion for the analysis of 357
- Warehouse layout, A model based evaluation of a commonly used rule of thumb for 133
- Water resources, Recursive state and parameter estimation with applications in 433
- Wave loads on large monolithic offshore structures, Second order 401
- Wave propagation in a nonlinear viscoelastic rod on a group theoretic basis, Similarity representation of 284
- Waves, Application of boundary integral equation method for modelling unsteady nonlinear water 11
- 'Fitting continuous-time and discrete-time models using discrete-time data and their application', Comments on 456
- Boundary element method and the perturbation method, Numerical solution of the generalized Laplace equation by coupling the 266

